UTAH OIL AND GAS CONSERVATION COMMISSION FILE_X ELECTRIC LOGS SUB. REPORT/abd. REMARKS: WELL LOG WATER SANDS LOCATION INSPECTED 2-20-85 DATE FILED U-54192 LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO INDIAN 2-26-85 - GAS (Exception Location) DRILLING APPROVED: SPUDDED IN: COMPLETED: PUT TO PRODUCING: INITIAL PRODUCTION GRAVITY A.P.I. GOR: PRODUCING ZONES: TOTAL DEPTH: WELL ELEVATION: DATE ABANDONED ROCK HOUSE FIELD: UNIT: UINTAH COUNTY: API #43-047-31602 WELLS FEDERAL #3-1 WELL NO 2050' FEL SW SE 1312' FSL 3 FT. FROM (N) (S) LINE, FT. FROM (E) (W) LINE 1/4 - 1/4 SEC. LOCATION SEC. **OPERATOR** SEC. **OPERATOR** TWP. RGE TWP. RGE

115

23E

CRESTONE ENERGY CORP.

CRESTONE ENERGY CORPORATION

718.17TH STREET SUITE 520 DENVER. COLORADO (303) 534-9090 80202



February 15, 1985

RECEIVED

Bureau of Land Management Oil and Gas Division 170 S. 500 E. Vernal, Utah 84078

FEB 2 0 1985

DIVISION OF OIL

GAS & MINING RE: Application to Drill

Gentlemen:

Enclosed please find four copies each of the Application to Drill for the following tests:

Wells Federal #3-1 SW SE Sec. 3, T. 11 S, R. 23 E Uintah County, Utah Lease #U-54192

Bonding is currently being processed and water use permits are being submitted.

Copies of this application are being sent to the State of Utah, Oil, Gas and Mining Division.

Please review at your earliest convenience. Direct comments or questions to:

David F. Banko c/o Crestone Energy Corporation 718 17th Street, Suite 520 Denver, CO 80202 (303) 534-9090

Thank you for your consideration and cooperation.

Very truly yours,

CRESTONE ENERGY CORPORATION

David F. Banko,

Petroleum Engineering Consultant

vcc: State of Utah Division of Oil, Gas and Mining File

DFB/cyb

Form 3160-3 (November 1983) (formerly 9-331C)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

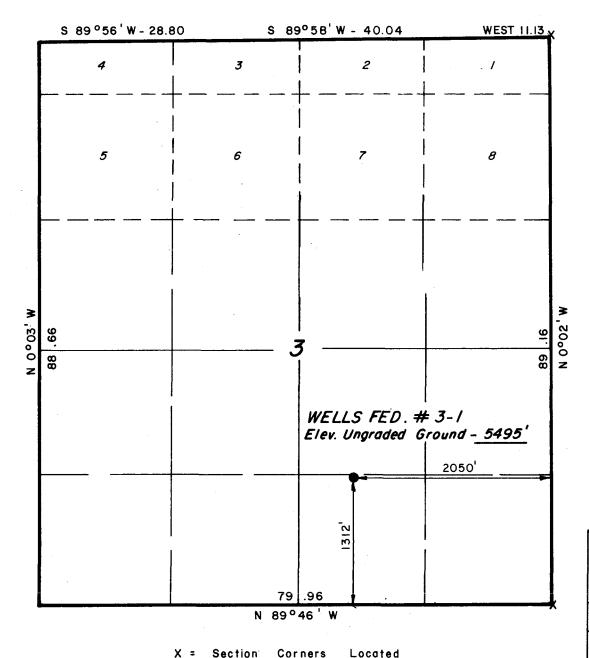
DEPARTMENT OF THE INTERIOR

Other Institution of

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

BUREAU OF LAND MANAGEMENT					5. LEARE DESIGNATION AND SERIAL RO		
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	N FOR PERMIT	TO DRILL,	DEEPEN, (OR PLUG B	ACK		TIES OF TRISE NAME
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b. TTPE OF WELL		DDD , 211		I EOO DA			
	WELL OTHER		BINGLE EONE	MULTIP SONE	LE 🔲 🗎	8. FARM OR LEASE	NAME
2. NAME OF OPERATOR	-					Wells Fed	eral
Crestone	Energy Corpor	ation				9. WELL NO.	
	i Street, Suite	520 Danvar	Colorado	90202		3-1	
	Report location clearly a					10. FIELD AND POO	
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At Proposed and Se	ection 3 T11S,	R23E	•			11. SEC., T., B., M., AND SURVEY OF	OR BLE.
At proposed prod. so	ове.]	3-T11S, R	23E
14. DIRTANCE IN MILES	AND DIRECTION FROM N	RABEST TOWN OR POS	T OFFICE*			12. COUNTY OR PAR	ISB 13. STATE
10 miles	SW of Bonanza	. Utah			ļ	Uintah	Utah
10. DISTANCE FROM PRO- LOCATION TO NEARE	POSED*	<u> </u>	16. NO. OF AC	LES IN LEASE		P ACRES ASSIGNED	1 000
PROPERTY OR LEASE		1312' F.S.L.	320.00	. /	TOTH	320.	.00
18. DISTANCE FROM PRO			19. PROPOSED	DEPTH .	20. ROTAL	T OR CABLE TOOLS	
OR APPLIED FOR, ON T		None	6000'	· AAND	Rot	tary	
21. BLEVATIONS (Show w	bether DF, RT, GR, etc.)		\sim			22. APPROL. DATE	WORK WILL START
5495' GF	}					May 1,	1985
23.		PROPOSED CASI	NG AND CEME	NTING PROGRA	M		
SIZE OF BOLE	SIZE OF CABING	WEIGHT PER P	00T SE1	TING DEPTH		QUANTITY OF CE	MENT
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(See Att	tached Drilling	Program)				•	
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		•			RE	CFIVED	₹* *
4	APPROVED BY	THE STAT	E				
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OIL GAS, AND MINING				1 (5)	B 2 0 1985		
. n	ATE: 12/20	2/85	يند.		_	* * *	a .
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W	/EL/L SPACING	: C-3 kg					
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N ABOVE SPACE DESCRIB sone. If proposal is to preventer program, if a	E PROPOSED PROGRAM: It drill or deepen directions.	f proposal is to deep nally, give pertinent	en or plug back, data on subsur	give data on pre ace locations and	sent produc measured	ctive sone and propo and true vertical dep	sed new productive oths. Give blowout
24.	·				·		
BIGNED DAVID F	BANKO	<u></u>	∟ Petrol	eum Enginee	r	DATE 1/28	3/85
(This space for Fed	eral or State office use)	•					
PERMIT NO.			APPROVA	DATE			

TIIS, R 23 E, S.L.B.&M.



PROJECT

CRESTONE ENERGY CORP.

Well location, WELLS FED. #3-/
located as shown in the SW I/4SEI/4,
Section 3, T11S, R23E, S.L.B.&M.
Uintah County, Utah.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THIS BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION № 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
POBOX Q ~ 85 SOUTH ~ 200 EAST
VERNAL. UTAH ~ 84078

SCALE	I " = 1000		DATE 11/28/84
PARTY	DKRK DB JF GM	RP	REFERENCES GLO PLAT
WEATHE	R Cold	·	FILE

CRESTONE ENERGY CORPORATION
Wells Federal #3-1
SW-SE Section 3 T11S, R23E
2050' F.E.L. - 1312' F.S.L.
Uintah County, Utah
G.R. 5495'
Federal Lease #U-54192

DRILLING PROGRAM

SURFACE FORMATION - Uintah

ESTIMATED FORMAT		(Water, oil, gas and/or other mineral bearing formations)
Uintah	Surface	Non marine sandstones, shales & siltstones
Green River	100'	Non marine sandstones, shales & siltstones, some water, oil and/or gas bearing
Wasatch	3150'	Sandstones and shales, some water, oil and/or gas bearing
Mesaverde	5000'	Sandstones and shales, some water, oil and/or gas bearing
TOTAL DEPTH	6000'	

CASING PROGRAM

Depth	Hole Dia.	Cas. Dia.	Casing Wt & Grd.	Cement
0-300'	17½"	13 3 /8"	54.5#/ft K-55 STC new	To surface
0-6000'	7 7/8"	5 1/2"	17#/ft K-55 STC new	200 sxs

Note: If severe water flow or lost circulation is encountered during drilling of 7 7/8" hole, drilling will continue to below the problem zone, then 7 7/8" hole will be reamed out to 12½" and 8 5/8" casing will be set and cemented as follows:

O-bottom 12½" 8 5/8" 24#/ft K-55 STC new 200 sxs of problem zone

PRESSURE CONTROL EQUIPMENT (See attached schematic diagram)

B.O.P.'s and choke manifold will be installed and pressure tested before drilling out under surface casing and then will be checked daily as to mechanical operating condition. Ram type preventors and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing. Annular type preventors will be tested to 50% of their rated working pressure. B.O.P.s will be pressure tested at least once every 30 days.

MUD PROGRAM

0-300'

Spud mud

300'-3000'

Treated water

3000'-6000'

Low solids non-dispersed

M.W. - 8.8-9.2ppg

Vis - 38-40 sec

W.L. 10cc or less

pH 9.5-10.5

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "Kick" will be available at wellsite.

AUXILLARY EQUIPMENT

- A) Kelly cock
- B) Drill pipe float (except for lost circulation conditions)
- C) Mud system monitoring will be visual
- D) A sub with full opening valve will be kept on the rig floor to be stabbed into the drill pipe when kelly is not in use.

LOGGING, CORING, TESTING PROGRAM

A) Logging: DIL - base surface casing to total depth

FDC-CNL-GR-CAL- total depth to 2000' above total depth,

other zones of interest if shows warrant.

- B) Coring: none anticipated
- C) Testing: Drill stem test(s) may be run on show(s) of interest

ABNORMAL CONDITIONS

Pressure: none anticipated Temperature: none anticipated

H₂S: none anticipated

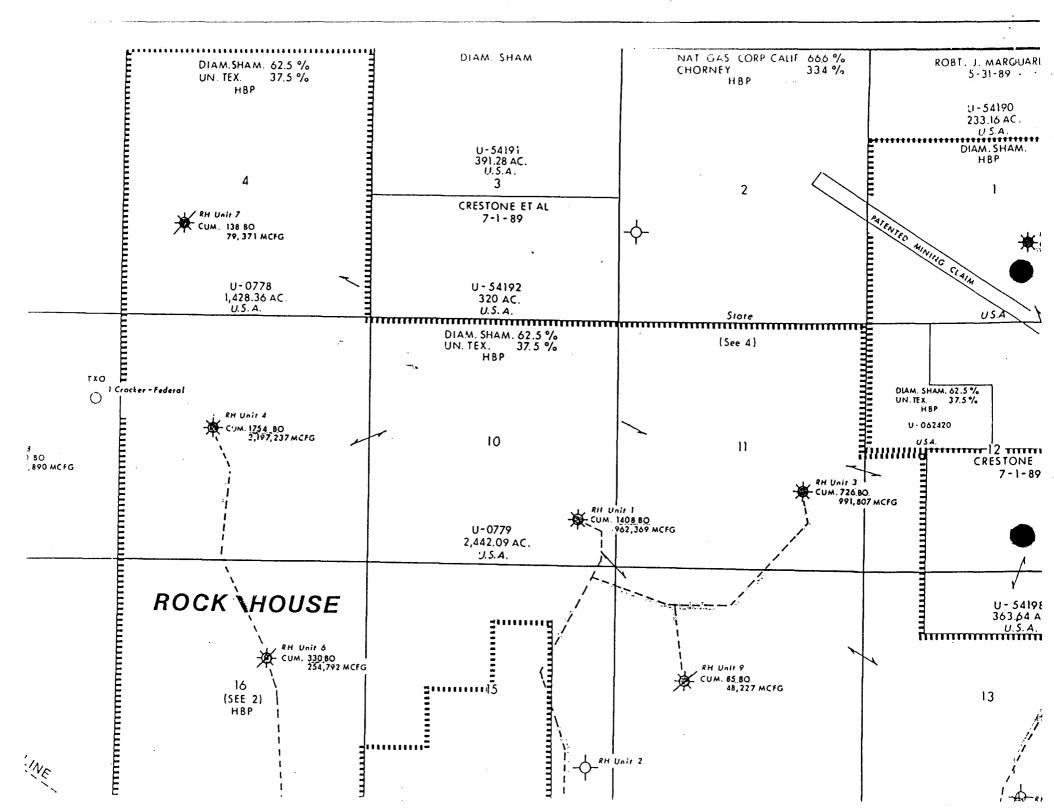
Estimated bottom hole pressure: less than 2500 psi

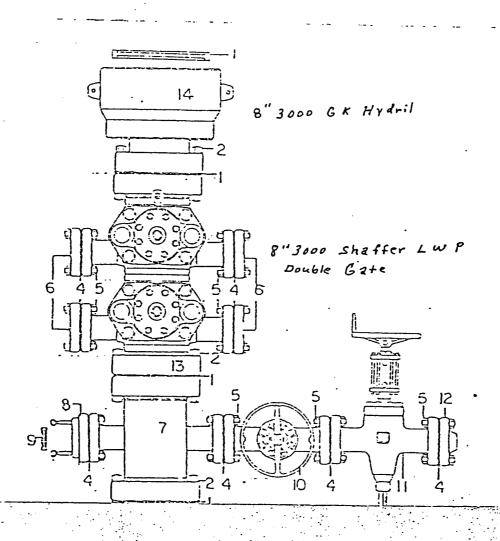
ANTICIPATE START DATE

Within 10-45 days of government approval

COMPLETION

Completion and stimulation procedure will be submitted by Sundry Notice after well evaluation.





WELLS FEDERAL #3-1

SURFACE USE AND OPERATIONS PLAN

WELL LOCATION AND INTRODUCTION - An on-site meeting was held on November 27, 1984. Attending were: BLM - Greg Darlington, Jack Hamilton and Frank Dudley; Archeological Environmental Research Corporation - F.R. Hauck; Uintah Engineering - Bob Kay; Crestone Energy Corporation - Dave Banko. Of several location alternatives presented, it was determined that this location was most favorable from a topographic, geologic and legal standpoint.

DIRECTIONS TO LOCATION - From Vernal, Utah travel southeast to Bonanza, then south on Hiway 45 4 miles, left on a dirt surfaced road 2.7 miles, then right 2.3 miles, right 4 miles to Watson Allotment sign, left 8 miles, right at a "T" $\frac{1}{2}$ mile, then left, bear right and follow main road 8 miles, then left $\frac{1}{2}$ mile to location.

EXISTING ROADS

The well is a development well.

Existing roads within 1 mile along with surface type, condition and load capacity are dirt surfaced, upgraded, minimally maintained to within 3/4 mile of location (see attached map).

Plans for improvement and/or maintenance are to maintain in passable condition as necessary during drilling operations.

2. PLANNED ACCESS ROADS

Running surface width to be approximately 18 feet and total disturbed width to be under 35 feet.

Borrow ditches to be back-sloped at 3:1 or shallower to allow for snow to blow by and to allow for trucks to slip into ditch without upsetting.

Maximum grades are 6% for 1000 feet.

Drainage will consist of borrow ditches on both sides with no culverts.

Low water crossings to be built as needed. Commercially obtained gravel to be placed in bottoms, if necessary.

Surfacing Material

Road crown to be built with material from borrow ditches. Topsoil will be burried in road crown.

Major road cuts and fills - side hill cuts on new access on location.

Fence cuts, gates and cattleguards will not be required.

LOCATION OF EXISTING WELLS

Within a mile radius.

Drilling - none
Abandoned - SW½, Sec. 2 T11S, R24E
Shut-in - none
Disposal - none
Producing - SW½, Sec. 4 T11S, R24E
SE½, Sec. 10 T11S, R23E

4. LOCATION OF EXISTING PRODUCING FACILITIES OPERATED BY CRESTONE ENERGY CORPORATION

There are none with a mile radius.

NEW PRODUCTION FACILITIES PROPOSED

Facilities to be constructed on location are as shown on production plat.

Dimension of proposed facility is 300' x 200'

Site preparation for production will be done with standard excavation equipment using native materials. Additional surfacing material will be obtained from commercial sources or an approved borrow area.

Production equipment will be painted standard oilfield colors. Gas and oil handling equipment will be light reflective to avoid overheating of production and to limit evaporation due to solar radiation.

Colors which cause increased temperatures from absorption of radiation will not be used due to incrased danger of fire and explosion and willful waste of fossil fuels from excessive evaporation. Color requirements to the contrary by management agencies must include consideration of these factors.

Production facailities may vary according to actual reservoir discovered and will be engineered upon completion of well tests.

All pits will be fenced on all sides.

No facilities are to be constructed off location

Rehabilitation of unneeded, previously disturbed areas will consist of back-filing and contouring the reserve pit area back-sloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for restoration of surface for details.

Pits which contain oil will be overhead flagged.

LOCATION AND TYPE OF WATER SUPPLY

Water will be transported by truck from Rainbow Unit #1, $SE_{\frac{1}{2}}$, Sec. 10 T11S, R24E per agreement with Diamond Shamrock. Appropriate permit will be obtained from State of Utah.

SOURCE OF CONSTRUCTION MATERIALS

Construction materials will consist of native material from borrow ditches and location area.

Surfacing materials will be obtained from available permitted sources, if needed, and consist of pit gravel.

Access roads to source of materials are not yet established.

WASTE DISPOSAL

Cuttings will be buried in reserve pit.

Drilling fluid: Will be buried in reserve pit when pit is dry.

Produced fluid: Will be contained in flare pit and/or will be burned in pit and buried when pit is dry. If sufficient fluids are produced during testing they will be contained in tanks.

Sewage: Sanitation holes will be dug approximately 24" in diameter by 20'-30' deep for each trailer and for rig "outhouses".

Garbage and other waste: Burnable garbage will be contained in trash pit and burned. Pit will be totally enclosed. Unburnable trash will be buried upon completion of operations.

Trash will be picked up if scattered and contained in trash pit as soon as practical after the rig is moved off. Trash pit will then be burned and fully enclosed until such time that it can be buried. Reserve pit will be fenced on all four sides and left until dry at which time it will be buried.

Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock and wildlife. Debris and excess equipment will be removed prior to final restoration of the location.

8. ANCILLARY FACILITIES

No ancillary facilities will be necessary

9. WELLSITE LAYOUT

See drill site layout plats for cross-sections and drill pad layout with cuts and fills.

Reserve pit will be unlined.

SURFACE RESTORATION

Backfilling, leveling, and contouring will be commenced after well completion and reserve pit is dry.

Abandoned wells

The entire disturbed area will be restored by backfilling the reserve pit, re-contouring the reserve pit and location, spreading top-soil and seeding. Access roads will be contoured and seeded unless deemed usable for other activities by the surface management agency.

Producing wells

Platform and pit areas not needed will be backfilled, recontoured, top-soiled and seeded.

Top-Soil

Prior to construction, all top-soil will be removed from the entire site and stockpiled. Top-soil, for this site, is the 4-6 inches of soil material; or, approximately 1200 cubic yeards of top-soil will be stockpiled. Stockpiles to remain more than one year will be seeded with an annual grain.

Seeding

The seed mix will be determined by the Bureau of Land Management. Seed will be planted after September 1 and prior to ground frost; or seed will be planted after the frost has left and before May 15. Fall seeding is considered the best time to plant. All seed must be drilled on the contour at a depth of $\frac{1}{4}$ to $\frac{1}{2}$ inch. Slopes too steep or rocky for machinery will be broadcast and the seed hand raked into the soil. When broadcasting the seed, the rate per acre will be doubled.

11. GENERAL INFORMATION

Topographic and geologic features - location is fairly level, setting on top of a sandstone ridge.

Soil characteristics - sand and clay.

Flora - sagebrush, cedar, pinion pine

Fauna - non observed, assume deer, antelope, elk, coyotes, rabbits, birds, domestic grazing.

Surface Ownership

Minerallessor - Bureau of Land Management

Drillsite surface owner - Bureau of Land Management

Access road surface owner - Bureau of Land Management

Concurrent surface uses - grazing and hunting

Proximity of water or occupied dwellings and other features - none in this vicinity.

Archeological, cultural or historicla information - an archeological report will be filed under separate cover by Archeological Environmental Research Corporation.

12. CRESTONE ENERGY CORPORATION REPRESENTATIVES

David F. Banko, Petroleum Engineering Consultant. . . . (303)534-9074

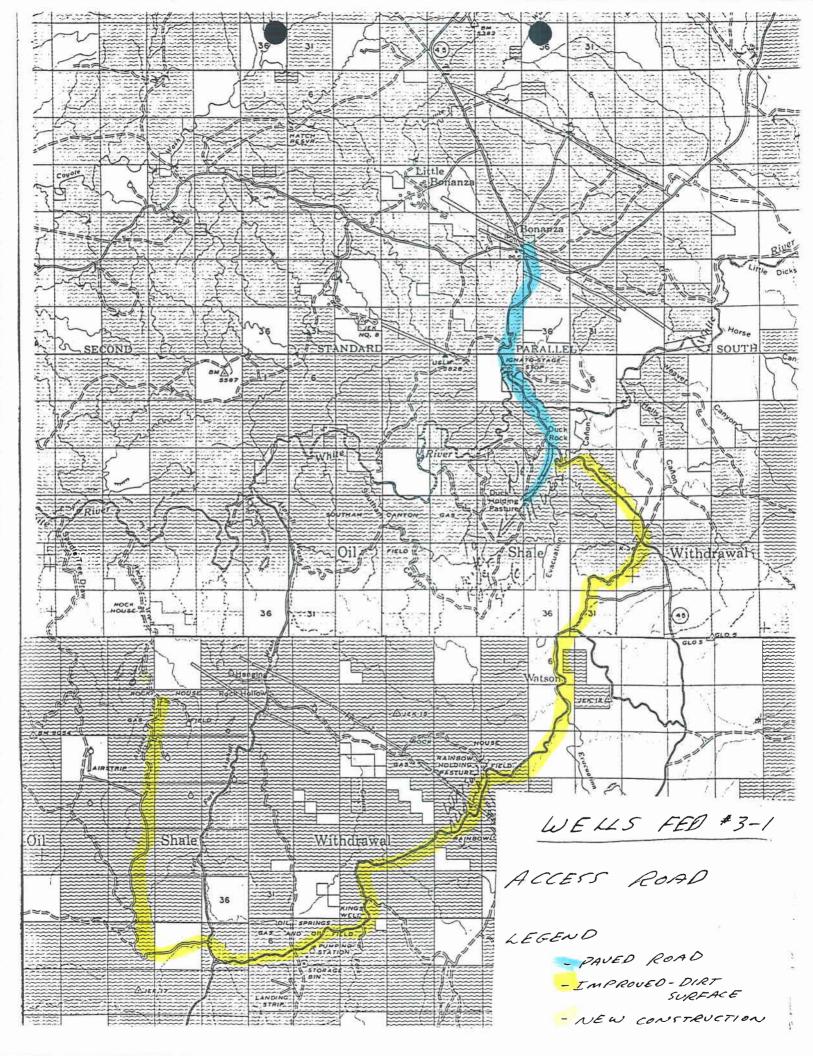
Randall C. Thompson, President. (303)534-9090

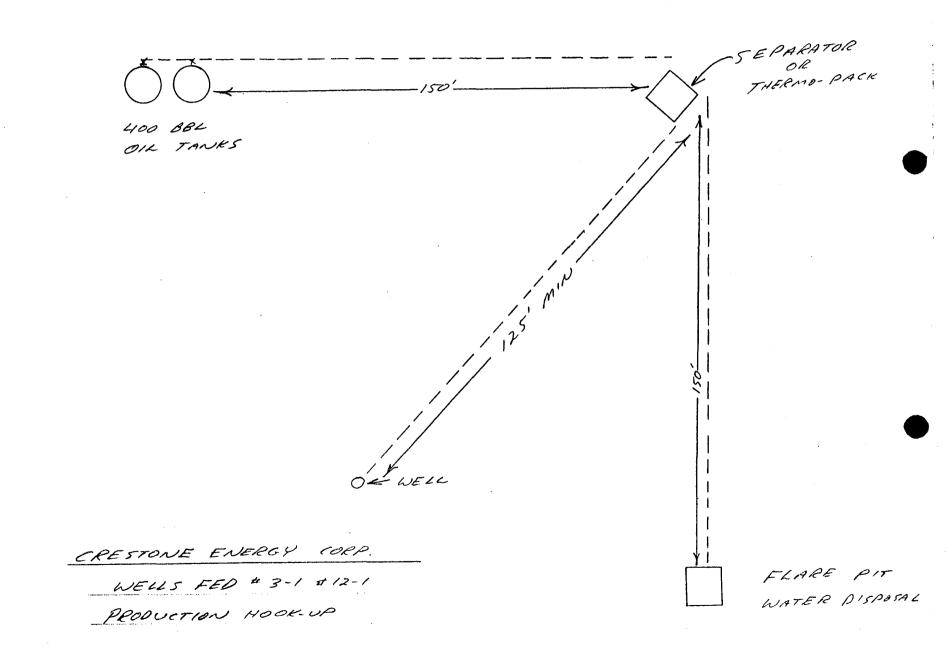
13. CERTIFICATION

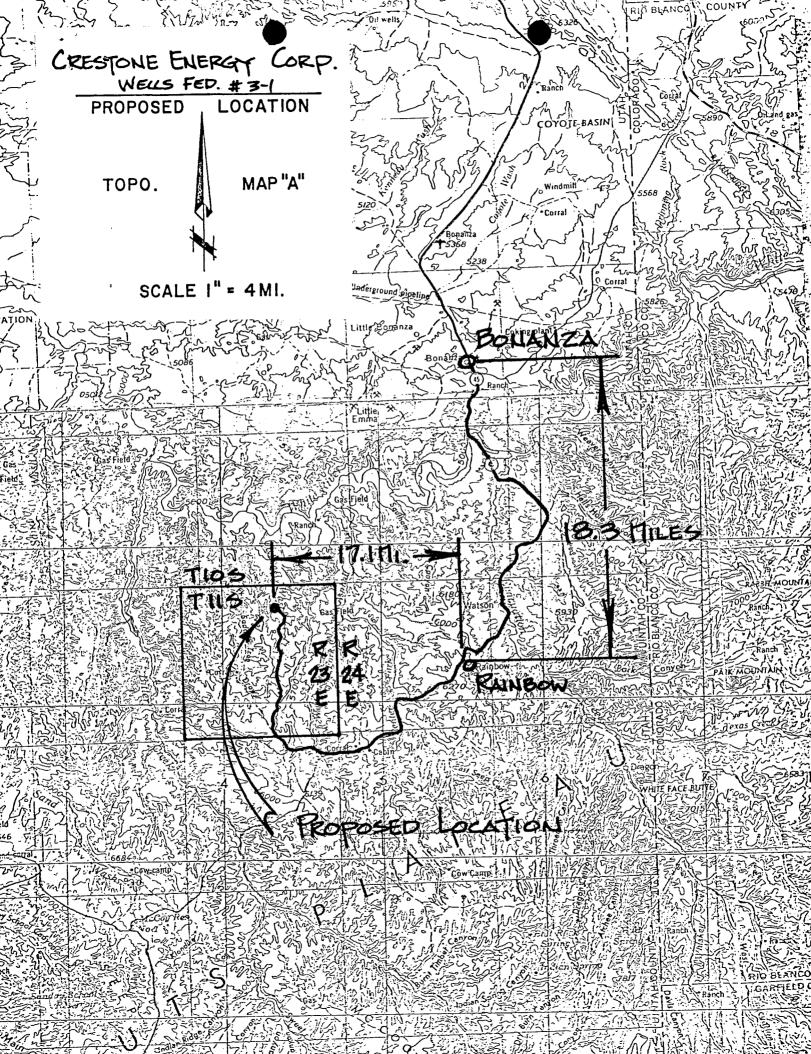
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by CRESTONE ENERGY CORPORATION and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

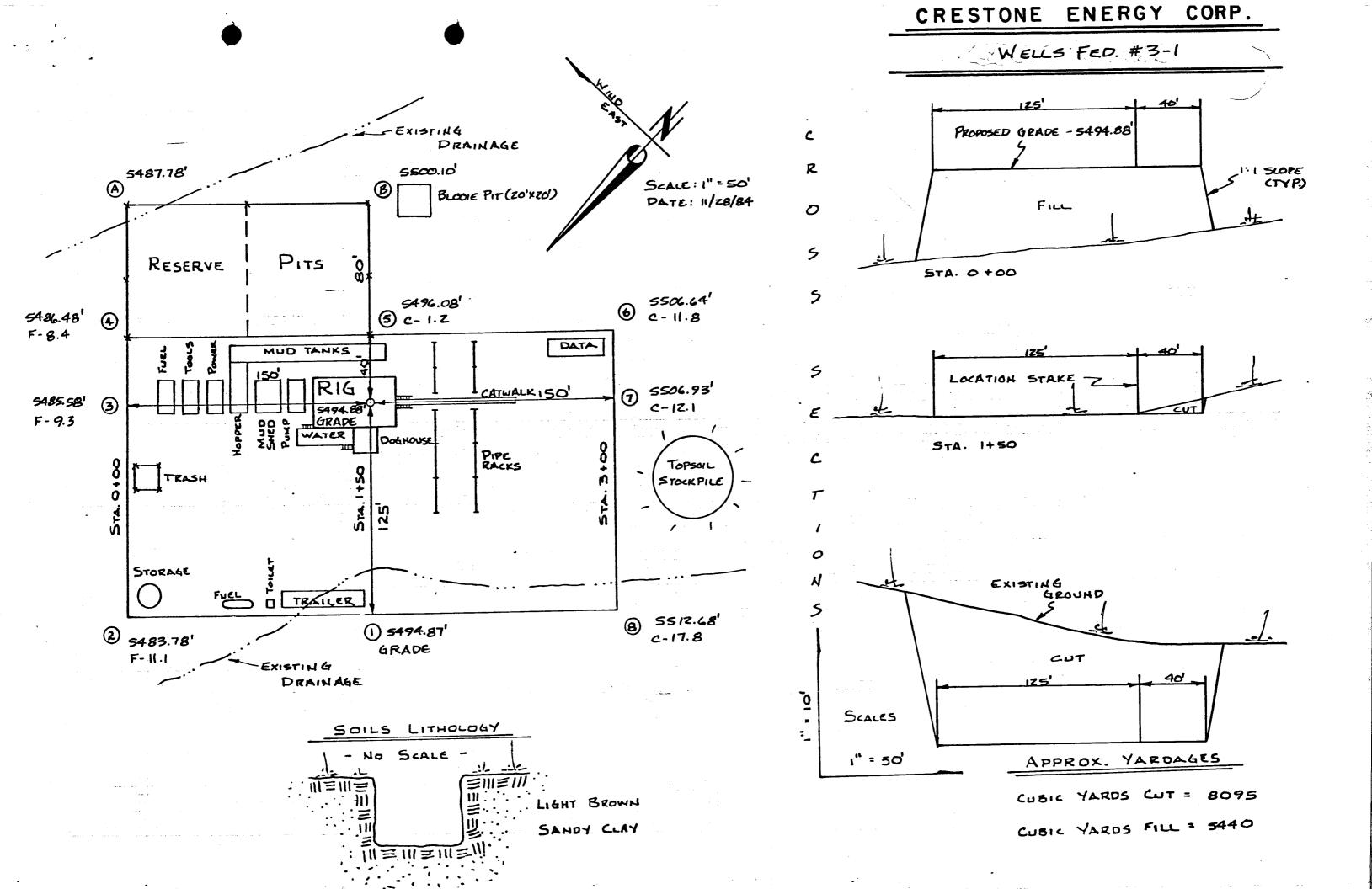
Date

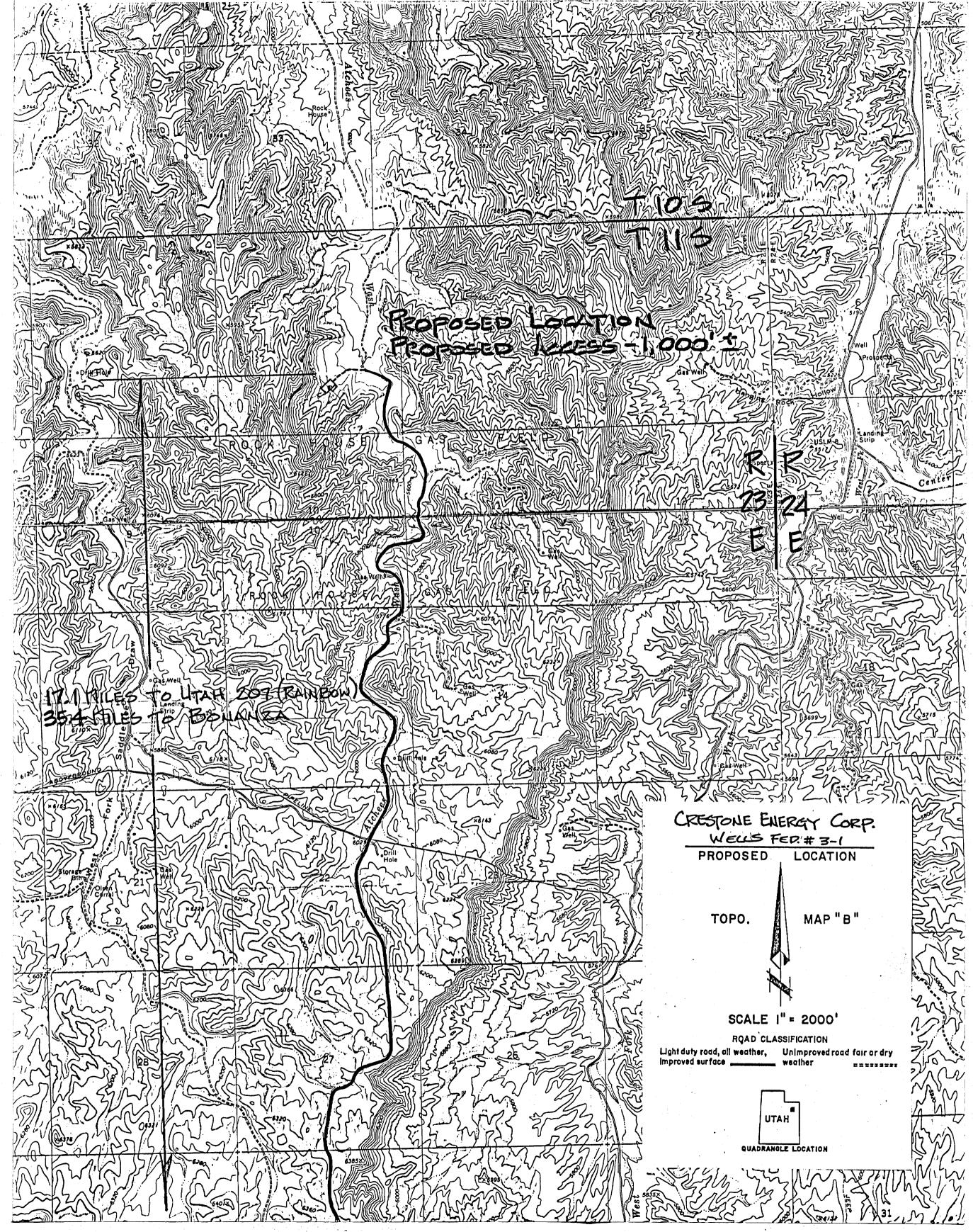
David F. Banko
Petroleum Engineering Consultant



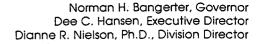


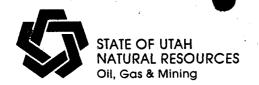






OPERATOR <u>Caristone</u> Eme	rgy Corp	DATE	2=2/-85
WELL NAME Wells Federal	0. #3-1		
SEC <u>SWSE</u> 3 T 115	R 23E COUN	TY Mintan	2
43-047-31602 API NUMBER CHECK OFF:		Itel. TYPE OF LEASE	
process and the second		- /	
PLAT	BOND		NEAREST WELL
LEASE	FIELD		POTASH OR OIL SHALE
PROCESSING COMMENTS: No other wells within	4960' (not a	n Rock House	(fint)
no other wells withen Meed water germit			· · · · · · · · · · · · · · · · · · ·
APPROVAL LETTER:			** **
SPACING: A-3 UNIT		CAUSE NO.	& DATE
c-3-b		:-3-c	
STIPULATIONS: Va Exception location			•
Va Exception location			





355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 26, 1985

Crestone Energy Corporation 718 - 17th Street, Suite 520 Denver, Colorado 80202

Gentlemen:

Re: Well No. Wells Federal #3-1 - SW SE Sec. 3, T. 11S, R. 23E 1312' FSL, 2050' FEL - Uintah County, Utah

Approval to drill the above referenced gas well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

- Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
- 2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 500 feet of the proposed location.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification to the Division within 24 hours after drilling operations commence.
- 2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
- 3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2 Crestone Energy Corporation Well No. Wells Federal #3-1 February 26, 1985

4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31602.

Sincerely,

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

To: John Baza From: Ed Deputy

Alta Energy Corp.
Getty 7B
Sec. 7 - 95 - 17E
Duchesne Co.
API No. 43 - 013 - 30927

APO rescinded: 06-20-85

Alta Energy Corp.

Getty 7E

Sec. 7-95-17E

Duchesne Co.

API No. 43-013-30928

APD rescinded: 06-20-85

Beartooth Dil F Gas Co. Federal 35-6 Sec. 35-155-22E Uintah Co. API No. 43-047-31495 APD returned to operator Not approved 08-07-84

Crestone Energy Corp.

Wells Federal 3-1

Sec. 3-115-23E

Uintah Co.

API No. 43-047-31602

APD returned to Operator
Not approved
no date

Del - Rio Resources
Oil Canyon 11-1A
Sec. 11-145-20 E
U:ntah Co.
API No. 43-047-31420

Suspended Operations

APD not approved

trouble getting surface approval from

Tribe

APD will be approved sometime

in July, 1986

Tronwood Exploration Co.

Ute Tribal 25-1

Sec. 25-55-4W

Duchesne Co.

API No. 43-013-30943

APD not approval
Returned to operator

Lomax Exploration Co.

B.C. Ute Tribal 16-14

Sec. 14-55-4W

Ouchesne Co.

API No. 43-013-31017

APD Expires April 16, 1986

Lomax Exploration Co.

W. Monument Federal 11-28

Sec. 28 - 85-16E

Duchesne Co.

API No. 43-013-31062

Extension granted APD expires March 26, 1987

Lomax Exploration Co.

Castle Reak Federal 3-23

Sec. 23-95-16E

Duchesne Co.

API No. 43-013-31063

Extension granted APO expires Dec. 11, 1986

4-15-86 Per Benna at Vernal BIM:

APD returned to operator, no date given. Not approved.



Norman H. Bangerter, Governor Dee C. Hansen, Executive Director Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Sait Lake City, UT 84180-1203 • 801-538-5340

April 16, 1986

Crestone Energy Corporation 718-17th Street, Suite 520 Denver, Colorado 80202

Gentlemen:

RE: Well No. Wells Federal 3-1, Sec.3, T.11S, R.23E, Uintah County, Utah, API NO. 43-047-31602

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, <u>prior</u> to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Jøhn R. Baza

⊭etroleum Engineer

sb

cc: BLM-Vernal

D. R. Nielson

R. J. Firth

Well file

0278T-34



DIVISION OF OIL. GAS & MINING

3162.35 U-820 U-54192

November 12, 1986

TXO Production Corp. 1800 Lincoln Center Building Denver, CO 80264

> RE: Application for Permit to Drill Well No. Wells Federal 1 Sec. 3, T11S, R23E Lease No. U-54192

We are returning the referenced Application for Permit to Drill as per your request.

Your application is being returned without prejudice. If you desire to drill later at this location, please resubmit your application.

If you have any questions, please feel free to call.

Sincerely,

Craig M. Hansen
ADM for Minerals

M. Me

Enclosures

MH

cc: State Div. OG&M well file

fo this the ?

some well?

PROBABLY

M12-11-86